What is claimed is:

- 1. A flame retardant thermoplastic resin composition comprising:
- (A) 100 parts by weight of a thermoplastic resin as a base resin;
- (B) about 0.1~100 parts by weight of a phenol resin derivative represented by the following Formula;

$$R_{4} \xrightarrow{O-R_{1}} R_{2}$$

$$R_{2}$$

$$CH_{2} \xrightarrow{R_{2}} R_{4}$$

$$R_{3}$$

where R_1 is alkyl of $C_{1.34}$; aryl; alkyl-substituted aryl; O-, N-, P- or S-containing alkyl; O-, N-, P- or S-containing aryl; or O-, N-, P- or S-containing alkyl-substituted aryl; R_2 , R_3 , and R_4 are hydrogen, alkyl of $C_{1.34}$; aryl; alkyl-substituted aryl; O-, N-, P- or S-containing alkyl; O-, N-, P- or S-containing aryl; or O-, N-, P- or S-containing alkyl-substituted aryl; and n is an integer of 1 to 10,000; and

(C) about 1~50 parts by weight of a phosphoric acid ester morpholide compound.

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2. The flame retardant thermoplastic resin composition as defined in claim 1, wherein said base resin is selected from the group consisting of polyacrylonitrile-butadiene-styrene copolymer (ABS resin), rubber modified polystyrene resin (HIPS), acrylonitrile-styrene-acrylate copolymer (ASA resin), methacrylate-butadiene-styrene copolymer (MBS resin), acrylonitrile-ethacrylate-styrene copolymer (AES resin), polycarbonate (PC), polyethylene (PE), polypropylene (PP), polyethylene terephthalate (PET), polybutylene terephthalate (PBT), polyvinyl chloride (PVC), polymethyl methacrylate (PMMA), polyamide (PA), and a copolymer thereof and an alloy thereof.

- 3. The flame retardant thermoplastic resin composition as defined in claim 1, wherein said phenol resin derivative is selected from the group consisting of o-cresol novolak epoxy resin, phenol epoxy resin and a mixture thereof.
- 5 4. The flame retardant thermoplastic resin composition as defined in claim 1, wherein said phosphoric acid ester morpholide compound is represented by the following Formula:

- where R_1 is a C_{6-20} aryl group or an alkyl-substituted C_{6-20} aryl group, R_2 is a C_{6-30} aryl group or an alkyl-substituted C_{6-30} aryl group, x is 1 or 2, and n and m are number average degree of polymerization and n+m is 0 to 5.
- 5. The flame retardant thermoplastic resin composition as defined in claim 1, where R₁ is phenyl group or an alkyl-substituted phenyl group, where the alkyl is methyl, ethyl, isopropyl, t-butyl, isoamyl or t-amyl and R₂ is a C₆₋₃₀ aryl group or an alkyl-substituted C₆₋₃₀ aryl group which is a derivative from resorcinol, hydroquinone, or bisphenol-A.
- 6. The flame retardant thermoplastic resin composition as defined in claim 1, further comprising an additive selected from the group consisting of an impact modifier, a heat stabilizer, an oxidation inhibitor, a light stabilizer, and an inorganic filler such as talc, silica, mica, glass fiber, an organic or inorganic pigment and/or dye up to about 50 parts by weight as per 100 parts by weight of the base resin.

- 7. A molded article prepared by the flame retardant thermoplastic resin composition of claim 1.
- 8. A molded article prepared by the flame retardant thermoplastic resin composition of claim 4.
 - 9. A flame retardant thermoplastic resin composition comprising:
 - (A) 100 parts by weight of a thermoplastic resin as a base resin;
 - (B) about 0.1~100 parts by weight of polyphenylene ether;
- 10 (C) about 0.1~100 parts by weight of a phenol resin derivative represented by the following Formula (I);

$$R_{4} \xrightarrow{O-R_{1}} R_{2} \xrightarrow{R_{4}} CH_{2} \xrightarrow{R_{2}} R_{2}$$

$$R_{3} \xrightarrow{R_{3}} R_{3} \xrightarrow{R_{3}} R_{3}$$

$$(1)$$

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where R_1 is alkyl of $C_{1.34}$; aryl; alkyl-substituted aryl; O-, N-, P- or S-containing alkyl; O-, N-, P- or S-containing aryl; or O-, N-, P- or S-containing alkyl-substituted aryl; R_2 , R_3 , and R_4 are hydrogen, alkyl of $C_{1.34}$; aryl; alkyl-substituted aryl; O-, N-, P- or S-containing alkyl; O-, N-, P- or S-containing aryl; or O-, N-, P- or S-containing alkyl-substituted aryl; and n is an integer of 1 to 10,000; and

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(D) about 0.1~50 parts by weight of a phosphoric acid ester morpholide compound.

- 10. The flame retardant thermoplastic resin composition as defined in claim 9, further comprising up to about 5.0 parts by weight of an anti-dripping agent based on 100 parts by weight of the base resin.
- 5 11. The flame retardant thermoplastic resin composition as defined in claim 10, wherein said anti-dripping agent is a fluoride resin.

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- 12. The flame retardant thermoplastic resin composition as defined in claim 9, wherein said base resin is selected from the group consisting of polyacrylonitrile-butadiene-styrene copolymer (ABS resin), rubber modified polystyrene resin (HIPS), acrylonitrile-styrene-acrylate copolymer (ASA resin), methacrylate-butadiene-styrene copolymer (MBS resin), acrylonitrile-ethacrylate-styrene copolymer (AES resin), polycarbonate (PC), polyethylene (PE), polypropylene (PP), polyethylene terephthalate (PET), polybutylene terephthalate (PBT), polyvinyl chloride (PVC), polymethyl methacrylate (PMMA), polyamide (PA), and a copolymer thereof and an alloy thereof.
- 13. The flame retardant thermoplastic resin composition as defined in claim 9, wherein said phenol resin derivative is selected from the group consisting of o-cresol novolak epoxy resin, phenol epoxy resin and a mixture thereof.
- 14. The flame retardant thermoplastic resin composition as defined in claim 9, wherein said phosphoric acid ester morpholide compound is represented by the following Formula (V):

 $\begin{bmatrix} R_1 - O \end{bmatrix}_{2-x} \stackrel{O}{\stackrel{\vdash}{P}} - \begin{bmatrix} O - R_2 - O - \stackrel{O}{\stackrel{\vdash}{P}} \end{bmatrix}_{n} \begin{bmatrix} O - R_2 - O - \stackrel{O}{\stackrel{\vdash}{P}} \end{bmatrix}_{m} O - R_1$ $\begin{bmatrix} N \\ O \end{bmatrix}_{x} \qquad (V)$

where R_1 is a C_{6-20} aryl group or an alkyl-substituted C_{6-20} aryl group, R_2 is a C_{6-30} aryl group or an alkyl-substituted C_{6-30} aryl group, x is 1 or 2, and n and m are number average degree of polymerization and n+m is 0 to 5.

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- 15. The flame retardant thermoplastic resin composition as defined in claim 14, where R_1 is phenyl group or an alkyl-substituted phenyl group, where the alkyl is methyl, ethyl, isopropyl, t-butyl, isoamyl or t-amyl and R_2 is a C_{6-30} aryl group or an alkyl-substituted C_{6-30} aryl group which is a derivative from resorcinol, hydroquinone, or bisphenol-A.
- 16. The flame retardant thermoplastic resin composition as defined in claim 10, further comprising an additive selected from the group consisting of an impact modifier, a heat stabilizer, an oxidation inhibitor, a light stabilizer, and an inorganic filler such as talc, silica, mica, glass fiber, an organic or inorganic pigment and/or dye up to about 50 parts by weight as per 100 parts by weight of the base resin.
- 17. A molded article prepared by the flame retardant thermoplastic resin20 composition of claim 9.
 - 18. A molded article prepared by the flame retardant thermoplastic resin composition of claim 14.